ABSTRACT

The present invention provides a method and system for automatically identifying a fiber type in an optically amplified optical fiber span. Optical spectrum analyzers are employed in order to measure profiles of one or more amplifiers connected to the fiber span. These profiles are then manipulated in order to obtain a score for the fiber span. This score is then compared to known scores for various fiber types in order to make a determination of the fiber type in the span. The profiles being measured can be either of a span loss profile or a Raman gain profile. In the case of a Raman gain profile, a Raman pump laser is employed in the measurements. According to the present invention, it is possible to identify whether a hybrid splice exists within a particular fiber span. The present invention also permits an auto mapping of networks.